

pto_PB0262.txt
SEQUENCE LISTING

<110> Loukola, Anu-Maria
Penn, Sharron G.
Rank, David R.
Hanzel, David K.
Casey, Graham.
Witte, John S.

<120> Detection Methods

<130> PB0262

<140> to be assigned

<141> 2003-09-25

<150> US 60/413,583

<151> 2002-09-25

<150> US 60/491,842

<151> 2003-08-01

<160> 45

<170> PatentIn version 3.1

<210> 1

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: G.

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aggcactttc tagaggcatg caggcataga tagccatgtt ctaagagtaa agggcaaccc 120

taagcaaacc tggcatgcta gaaagtcagt ctgcggtctg tggatcacct acatcagatc 180

aaatgccaat tctcagcctc c 201

<210> 2

<211> 201

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<222> (101)..(101)

<223> Alternative allele: T.

<400> 2

tgatagaagc caggcttctc acctttgcag aaggagtgca tggattcaga aaggagaaaa 60

actagcatga atcctatgaa attagattgg aatggatgta accgtgtata ttcataacct 120

tgtagataga tagatgggta gatagatgat agataggtaa cagatagatg acagataatg 180

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agatagatag atgtaaatgt a

201

<210> 3
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<220>
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<223> Alternative allele: T.

<400> 3
ggcaggagaa tcacttgaac ctgggagggc gatgttgaag tgagctgaga ttgcaccact 60
gcactccagt ctgggtgaga gtgagactca gtcttaaaaa aatatgcctt tttgaagcac 120
gtacattttg taacaaagaa ctgaagctct tattatatta ttagttttga tttaatgttt 180
tcagcccatc tcctttcata t 201

<210> 4
<211> 201
<212> DNA
<213> Homo sapiens

<220>
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<222> (101)..(101)
<223> Alternative allele: G.

<400> 4
aagtcaccag aaagtcagaa gggatgacat gcagaggccc agcaatctca gctaagtcaa 60
ctccaccagc ctttctagtt gccactgtg tgtacagcac cctggtaggg accagagcca 120
tgacagggaa taagactaga ctatgccctt gaggagctca cctctgttca gggaaacagg 180
cgtggaaaca caatggtggt a 201

<210> 5
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: T.

<400> 5
ctgtagtcca atagataaag gcaaagagat tagggcattg aattttgttc cttttatcct 60
tcaaaagatg cacaaggggc tgctgatctc actgctgtag cgggtgctcct tatgcataga 120
cctgcccttg ctcagccact ggcctgaaag aggggcaaaa gtcatagaag gaatggcttc 180

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cagttgagaa ccttgatgtc t

201

<210> 6
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: C.

<400> 6
gaactattgg aactgataaa cacattcagt aaagttgcag gatacaaaat cagcatataa 60
aatcagtag catttctata tgccaatagt gaacaatctg gcaaaaataa aaaagtaatc 120
ccatttataa tagccacaaa taaaactaaa tacctagaaa ttaacttaat caaagaagag 180
aaaggtctct acaatgaata c 201

<210> 7
<211> 201
<212> DNA
<213> Homo sapiens

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<222> (101)..(101)
<223> Alternative allele: T.

<400> 7
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tttcaaatac ctctctgtt ttctcttatt tcctttatga cgtctccaaa taagcttccct 120
ctaactgcca gcaagttctga ttccattggc ttcgactgtt ttcattccaa ttagaggcag 180
ggttaagtac attaaaaata a 201

<210> 8
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (104)..(104)
<223> Alternative allele: T.

<400> 8
aactgcccct aggatccaat catctcctac caggccccac ctccagtatt ggggattgca 60
tttcaacatg agatttttgt aggggcacag attcagacca tatcactggc actgtgctaa 120
tcagatgaat atcaccagtt ggaaggctag attccacaag aggaggaatg acctggaaat 180
tggttcttta gttgtgattc t 201

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<210> 9
 <211> 201
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SNP
 <222> (100)..(100)
 <223> Alternative allele: T.

<400> 9
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 aggcacagcc aagagctctg gctgtattaa tgacctaga agtcaccaga aagtcagaag 120
 ggatgacatg cagaggccca gcaatctcag ctaagtcaac tccaccagcc tttctagttg 180
 cccactgtgt gtacagcacc c 201

<210> 10
 <211> 201
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (101)..(101)
 <223> Alternative allele: base deleted.

<400> 10
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 gcctgaggtc aggagttcaa gacaagcctg gcctacatgg ttgaaacccc atctctacta 120
 aaaatacaca aattagctag gcatgggtgga ctgcctgta atctcactac acaggaggct 180
 gaggcaggag aatcacttga a 201

<210> 11
 <211> 201
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SNP
 <222> (101)..(101)
 <223> Alternative allele: T.

<400> 11
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 cagccagagc cttaaataagg tatggagaac ccacatgagg cgaggagggc atccatgagt 120
 gggagggggtt ggggtgagggtt tggctacata aaggggattg atcaaataag taaatgtatt 180
 aaggatgata gaagccaggc t 201

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<210> 12
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> SNP
 <222> (101)..(101)
 <223> Alternative allele: C.

<400> 12
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 gatgtcttct tttgagaagt gtctgttcat atcctttgcc tattttttga tggggttggt 120
 tgcttttttt cttgtaaatt tgtttaagtt cttttagat tctggatggt agcccttcgt 180
 cagatggata gattgcaaaa a 201

<210> 13
 <211> 201
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SNP
 <222> (101)..(101)
 <223> Alternative allele: G.

<400> 13
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 catgtctaca tccacttttg tctgtatgtc tatgtatcta tctatgtatc tatctagcta 120
 tgtatctatc tatctatcta tctatcatct atctatctat ctatcatcta tccatctatc 180
 atctatcatt tatccatcta t 201

<210> 14
 <211> 201
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SNP
 <222> (101)..(101)
 <223> Alternative allele: G.

<400> 14
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 agactgtcca tataattaaa atgtacaata actaccagg tttaccttgc aagtttcaac 120
 atacacaaaa ttaactttat atgactcttc aaaaacagtt tgccatcata cctaataatc 180
 tggttttaat tttaaaaact c 201

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<210> 15
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: T.

<400> 15
tgcccagagt gtggctttaa aagcttcccc attgcttctc atgtgaagcc aaggttgaga 60
atgactaatt taaggcattt ctggtggata taaaggacta ccacagtcca aggccatcct 120
gactgacctc accttccagg tgcctagctc catccagctg ggctcctttt caacccaatt 180
ataactctat taatgttggt c 201

<210> 16
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: A.

<400> 16
agagtgtggc tttaaaagct tccccattgc ttctcatgtg aagccaaggt tgagaatgac 60
taattttaagg cttttctggt ggatataaag gactaccaca gtccaaggcc atcctgactg 120
acctcacctt ccaggtgcct agctccatcc agctgggctc cttttcaacc caattataac 180
tctattaatg ttgttcccag c 201

<210> 17
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: A.

<400> 17
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acctcacctt ccaggtgcct agctccatcc agctgggctc cttttcaacc caattataac 120
tctattaatg ttgttcccag ccaggcatgg tggctcatgc ctgtaatccc agcactttgg 180
gaggccgaag caggcggatc a 201

<210> 18

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<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: A.

<400> 18
ctaatttgat tgcactgtgg tctgagagac agtttgttat gatttctggt cttttacatt 60
tgctgaggag tgctttactt ccaattatgt ggtcaatttt ggaataagtg cgatgtggtg 120
ctgagaagaa tgtatattct gttgatttgg ggtggagagt tctgtagatg tctattaggt 180
ccgcttggtg cagagctgag t 201

<210> 19
<211> 200
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (100)..(100)
<223> Alternative allele: C.

<400> 19
ggacaggcat agtttagaga gtttatccca tccagagttg ctttctgtgg tcagaaactg 60
atgagcaaaa agaagcccag agggcaccct gtcagcgaaa agaaccceaa tgctgctgca 120
ttctaattaa gggttctttc tttctccttg atctactgta tttctgaagg aattgggagt 180
aggaggcctt agggctctgtc 200

<210> 20
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<212> DNA
<213> Homo sapiens

<220>
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<222> (101)..(101)
<223> Alternative allele: G.

<400> 20
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cagcccaatc tctgggctcc agagaaaggg agagccaatt ctctcaggct ttctgtgcag 120
gaagactagg cctgccctgc tccttaccca agcagtagtt ggctttgacc ccagagtaga 180
gctgccccat cttctggaag c 201

<210> 21
<211> 201

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<212> DNA
<213> Homo sapiens

<220>
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<222> (101)..(101)
<223> Alternative allele: A.

<400> 21
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cttttcatgg aaaatggggg cagtgactac tgtcctccat gaaagctgct ggggagaatt 120
agcctagcta ttgcaggctg ggattgctgc tttcctggtg ctatttccag ctactcaggc 180
tcacaggggc agttttctac a 201

<210> 22
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: T.

<400> 22
attgggagta ggaggcctta ggggtctgtcc taccaagtcc ttgcagtcatt ggtggagtgc 60
agtggggctg tgccacatg ggagtcagca tgccaggtag ctgccttctc ctccaggaag 120
gaaagcaggg accagaggtg taaggccaag agtgggggtg atggtgtgag attcctacag 180
ccttgccctgc tctctaaagg c 201

<210> 23
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: G.

<400> 23
gccactgtgc cctgccagcc tctcagcttt gatcaagcca agggttgggt tattttttct 60
tggaaccaatc agccaggtct gctgaccaac tacctagctc ccacctctgc tggcttcctc 120
ccgggggagc agaagatgga gaaggctagt catgtggatc ttcagggtca ggaaatggaa 180
aaggagggtc ttggaccctt t 201

<210> 24
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<212> DNA

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<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: A.

<400> 24

atggagaagg ctagtcatgt ggatcttcag ggtcaggaaa tggaaaaggg aggctttgga 60

cccttttgct ttggggggca cctctaggag gaggcagctc ggccaagtc cagactgggt 120

agacaaaaca tctgcactct ccaaattgtgg gcttgtggct gggtatgcag gcttgcaatg 180

gaagggtaaa cctgagttag g 201

<210> 25

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: T.

<400> 25

ctgacattgt cccaattctt ccttcctttt tacttccctg ctccagccgc aatgacccat 60

ctttttcctg attacctcgg ccacctctac ctctctgcc acttaaaacc tttgccattt 120

ctctgcagag atagatttag ccttttaatt atgcacctta gtactccaga taatgacctt 180

catttctttt ccaattacca t 201

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<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (100)..(100)

<223> Alternative allele: G.

<400> 26

atttttaggg aacaagggaa aaacaaccata aggtctgact gcctgcaggg tcgggcagaa 60

agagccatat tttccttctt gagagaggct ataaatggac atgcaagtag ggaagatata 120

actaaattct tttccttagca aggagtatta ttattaatac cctgggaaag gaatgcattc 180

ctgggggggag gtctataaac a 201

<210> 27

<211> 201

<212> DNA

<213> Homo sapiens

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<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: T.

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accctgtttg ctgttggtta aggtgtttat caagacagta cgtgcaccgc tgaacataga 120
ccctcatctg tagttctgct tttgcccttt gccttgtgat ctttgttggga cccttatcag 180
tggttctgct tttgcccttt g 201

<210> 28
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: A.

<400> 28.
tacagccagg attcatgtta cttttcatgg aaaatggggg cagtgactac tgtcctccat 60
aaaagctgct ggggagaatt agcctagcta ttgcaggctg ggattgctgc tttcctgggtg 120
ctatttccag ctactcaggc tcacaggggc agttttctac aatgacattt cagggttgct 180
gatgagcctc ccactcagca g 201

<210> 29
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: A.

<400> 29
ctggaggatt ttaagtatgt aagtggaaaca atctgttttt ttgtttttgt ttttgtttga 60
gaaggagtgt cgctcttggt gccctggctg gagggtcaatg gcatgatctt ggctcactgc 120
aacccttgcc tcttgagttc aagtgattct cctgcctcag cctccaaaat agctgggatt 180
gcaggcgtgt gccaccatgc c 201

<210> 30
<211> 150
<212> DNA
<213> Homo sapiens

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<220>

<221> SNP

<222> (50)..(50)

<223> Alternative allele: C.

<400> 30

tcttgtgaag gggtcacccc agcatgagtg ctgagatatg gactctctaa ggaagggggc 60

gaacgcttgt aattggaata catggaaata tttgtcttct caggcctatg tttgcggaat 120

gcattgtcaa tatttagcaa actgttttga 150

<210> 31

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (51)..(51)

<223> Alternative allele: G.

<400> 31

cgagaacagt tttaacaatag acattgcaaa ctctcatgtt tttggaaact agtggcaata 60

tccaaataat gagtagtgta aaacaaagag aattaatgat gaggttacat gctgcttgcc 120

tccaccagat gtccacaaca atatgaagta c 151

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<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: A.

<400> 32

gtctgcgtgt atgacggcta gacaggagtt cagagaacag cggggtcgcc aggccaccac 60

ctgatgggcc acggctcatt ggctctagga gctgggaaag ggcatcccag gaaagaagcc 120

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<211> 200

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(107)

<223> Alternative allele: eight A's instead of seven after base 100.

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<400> 33
agctaattgt tataatagtg gagaaaagat catgaggaca aaaagtgggc agagtcggaa 60
gaaaagagag gaagaaattg agacagaaga catttcattt aaaaaaatat tccattgagc 120
tgggtttgaa atagtgcact gcctgttctc ctaatgctgt atggtgtcat gaaatctatt 180
gtttactgag tctatgagcc 200

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<212> DNA
<213> Homo sapiens

<220>
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<222> (101)..(101)
<223> Alternative allele: C.

<400> 34
aactctgaag ccacaaagac ccagagcaaa cccactccca aatgaaaacc ccagtcattg 60
cttccttttt cttggttaat taggaaagat gagaaattat taggtagacc ttgaatacag 120
gagccctctc ctcatagtgc tgaaaagata ctgatgcatt gacctcattt caaattttgtg 180
cagtgtctta gttgatgagt g 201

<210> 35
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<213> Homo sapiens

<220>
<221> SNP
<222> (101)..(101)
<223> Alternative allele: T.

<300>
<308> NCBI SNP CLUSTER ID: rs413836
<309> 2003-03-07

<400> 35
aaagaaacat tgtttcttaa aacaatgttt taagaaagtg tacgaatttg tgtcaggcca 60
catccaaaac tgtcctgggc tgcattgtggc ccacaggctg cgggttggac aagcctggcc 120
tagaaggctt tgccccatg tattcatggg gggttggttc tcactttatt tagttcccta 180
ccaatttgca cctcctcaaa gggactttcc c 211

<210> 36
<211> 213
<212> DNA
<213> Homo sapiens

<220>
<221> SNP

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<222> (123)..(123)
<223> Alternative allele: T.

<300>
<308> NCBI SNP CLUSTER ID: rs545303
<309> 2003-03-07

<400> 36
gggaactcac agtttttttg ctgtctcata gagtttgcaa cagtaaaact gcttctttca 60
aagggtctgt gaattctttc agttttcctg gtatgttccc atggtagttc ttgcagcaaa 120
agctcacagt gtgagtctcc acacactgtt ctgtccattc caagcaggag ctgcatgtta 180
gttctgtctg ctatccacca ttttccaatt ttg 213

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<211> 20
<212> DNA
<213> Homo sapiens

<400> 37
tggccttgta cgtcgcgaag 20

<210> 38
<211> 21
<212> DNA
<213> Homo sapiens

<400> 38
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<210> 39
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<221> misc feature
<222> (37334)..(37334)
<223> Unknown base.

<300>
<308> <http://www.genome.utah.edu/genesnps/>
<309> 2002-06-05
<313> (1)..(37073)

<400> 39
ggatccctac tcaactgtctt ctctctacag aacgagatgt ctctggagtc catagaaagc 60
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ggcaggcaga tcacctgagc tcaggagtgc aagaccagcc tgggcaacat ggcaaaaccc 180
catctctact aaaaatacaa aaaattagct gggcgtggtg gtgcatgcct ctaatcccag 240
ctacttggga ggctgaggca caagaattgc ttgagcccag gaggcagcag ttgcagtgag 300
ctgagattgt gccagtgcac tccagcctgg gcaacagagc aagattccat ttcaaaaaca 360

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aaaacaaaca	caaacaaaca	aacaaaaata	gaaagcccag	ggaccacctg	cgtcagggttc	420
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gtttgtggtt	gcacaaattc	aaaatcccag	aaaaattacc	acttcacacc	cactcagatg	540
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cattttgcaa	ctagatagag	gtagtgattg	cagaacacag	aatgtactga	attccactga	1200
tttttttcac	cttaaaatgg	ttaattttca	gtcctgagat	tggataatca	taaaaaatg	1260
gttaatttta	tgttatgtga	atttcatccc	tatacatatt	ttaaacctca	gaaatataca	1320
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ataatatcca	catgctggca	tgattcctgg	ccagatggct	tctttattag	cagtaattga	1500
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